

## IN THE CLAIMS

Please amend the claims as follows:

1. (original) An integrated circuit (IC) comprising a signal transmission channel (TX) including radio frequencies and an integrated tester (TEST) intended to test radio characteristics of said integrated circuit, said tester (TEST) comprising:
  - first means (COUPL) for recovering a part of the signal generated by the transmission channel (TX) at a first frequency (F0),
  - second means (M) for converting said recovered signal from the first frequency (F0) into a second frequency (F1),
  - an amplifier (A) for amplifying said signal at this second frequency (F1), and
  - a rectifier (R) for rectifying said signal.
2. (original) An integrated circuit (IC) as claimed in claim 1, characterized in that the tester further comprises detection means (CMP/ADC) for detecting the validity of the signal generated by the transmission channel (TX).

3. (original) An integrated circuit (IC) as claimed in claim 1, characterized in that the tester further comprises a filter (F) for filtering harmonics of the signal.

4. (original) An integrated circuit (IC) as claimed in claim 1, characterized in that the first frequency (F0) is a radio frequency and the second frequency (F1) is a low frequency.

5. (original) A method of testing an integrated circuit (IC) comprising a signal transmission channel (TX) including radio frequencies, said method being intended to test radio characteristics of said integrated circuit and being independent of said transmission channel, said method comprising the following steps:

- recovering a part of the signal generated by the transmission channel (TX) at a first frequency (F0),
- converting the first frequency (F0) of the recovered signal into a second frequency (F1),
- amplifying said signal at this second frequency (F1), and
- rectifying said signal.

6. (original) A method of testing an integrated circuit (IC) as claimed in claim 5, characterized in that it further comprises a

step of detecting the validity of the signal generated by the transmission channel (TX).

7. (original) A method of testing an integrated circuit (IC) as claimed in claim 5, characterized in that it comprises a step of filtering harmonics of said signal.

8. (original) A tester (TEST) for testing radio characteristics of a transmission channel (TX) of an integrated circuit (IC), said tester (TEST) being intended to be integrated with said integrated circuit (IC) and comprising:

- first means (COUPL) for recovering a part of the signal generated by the transmission channel (TX) at a first frequency (F0)
- second means (M) for converting said signal recovered from the first frequency (F0) into a second frequency (F1)
- an amplifier (A) for amplifying said signal to this second frequency (F1), and
- a rectifier (R) for rectifying said signal.

9. (original) A tester as claimed by claim 8, characterized in that it further comprises detection means (CMP/ADC) for detecting

the validity of the signal generated by the transmission channel (TX).

10. (original) A tester as claimed by claim 8, characterized in that it further comprises a filter (F) for filtering harmonics of said signal.

11. (currently amended) A transmitter comprising an integrated circuit (IC) comprising a tester as claimed in ~~claims 8 to 10~~claim 8.

Integrated circuit comprising of a transmission channel with built - in independent tester